Notice of Allowability	Application No.	Applicant(s)	
	10/621,456	KIM ET AL.	
	Examiner	Art Unit	
	Hadi Akhavannik	2624	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>11/2/07</u> .			
2.  The allowed claim(s) is/are <u>1,3-11 and 13-21</u> .			
3.			
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Sui Paper No./N 7. ⊠ Examiner's A	fail Date  mendment/Comment  statement of Reasons for Allowance	

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## **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Nicole Dretar (54076) on 11/2/07.

The application has been amended as follows:

Please amend claim 21 to recite:

21. A computer readable medium having embodied thereon a computer program operable to cause one or more machines to execute the method of claim 11.

## REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Independent claims 1, 10, 13 and 20 recite in part:

A skin color probability map generation unit which generates a skin color probability map (P.sub.skin) of the area having a motion, by using a face skin color model; a global probability map generation unit which extracts a plurality of highest points of the area having a motion, sets central coordinates at a predetermined distance from the plurality of highest points, and calculates a probability that a face is located within a distance

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from the central coordinates, to generate a global probability map

(P.sub.global); and a multiple scale probability map generation unit which

generates a multiple scale probability map about the probability that a face

is located, by multiplying the skin color probability map and the global

probability map (P.sub.global), and extracts an area, in which the

probability value of the generated multiple scale probability map is equal to

or greater than a predetermined threshold value, as a candidate area where a

face is possibly located.

And independent claims 7 and 17 recites many equations which are allowable over prior art.

The above features, as explicitly recited, and in combination with the other elements of the claim are neither disclosed nor suggested by the nearest prior art of the record.

As explained in the previous office action, none of Yang, Cho, nor Karmann disclose the specifics of the independent claims.

Similar defects can be found in prior art Chen et al. (6920237) and Ho et al. (7218759).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hadi Akhavannik whose telephone number is 571-272-8622. The examiner can normally be reached on 10:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian P. Werner can be reached on 517-272-7401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HA 11/2/07

BRIAN WERNER
SUPERVISORY PATENT EXAMINER

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